

TRAIL

Summer 1965

1965

(FARM, HAWK, HAWK,  
FARMER, HAWK,  
MILL, HAWK,  
HAWK)

58-1

Sample

# INDEX

443

443 +

Page

Subject

5DT

3/2/65

4th. 1/10/65. 1/10/65. 1/10/65.

1/10/65. 1/10/65. 1/10/65.

4 Photos for send

1/10/65. 1/10/65. 1/10/65.

Amount sent in 1965 - 330/65

deduct wages of 1/10/65 (7.2 1/2 pence)

200 pence

London Road 4 pence - 2-1/2

500 pence - 20/0

Limit of 7 hours flying

include ground time

Outboard coming back

1/10/65. 1/10/65. 1/10/65.

1/10/65. 1/10/65. 1/10/65.

Write letter

Send W. 1/10/65

1/10/65. 1/10/65. 1/10/65.

sample bags, 1/10/65

1/10/65. 1/10/65. 1/10/65.

## Minimum Survival

6 Chocolate

2

3 H F G

Slab. Bags

Ventile note

Shovel

Axe

Candle

## Take

Cont Report  
(Brief Case!)

Paper

Type writer

## DIARY

Tuesday 19th January, 1955

Up 0715 & sched 0730, poor  
contact, Peter Baygott awarded home  
possibly as result last night's charges  
partly. Thought heard "5500 Z"  
nothing else understood. Usual teletype  
interference. 1100 still in contact  
but sleep usual sleep hours.

No. 1000 Sky had come at  
5:00 P.M. & upon striking camp  
cooked lunch on oil & kerosene stoves.  
Started to work, quite warm.

After lunch walk to Dome Glacier  
& observe small "topsoy" formation.

Back to camp & make inventory.  
Then helicopters arrived 12:30.

Push up & leave quickly. Arrive  
inspection of Campbell Rd. & C. road  
up to Taylor & back. Arrive at  
1700. Found 2nd campsite  
back of camp. Time to start to  
geologists. Carlson & Peter return  
at 12:00, also 3 large campfires  
to be made. 40-50 ft. wind &  
drift. Then blow out campfires for  
the night. Out. Talk to Peter,  
Ed. O'Connell.

Wednesday, 20th January, 1965

Up 5745, then ready to go to  
Emilia Peak, left about 11:00.

I checked, dried, & packed camp  
equipment all morning, packed  
afternoon, sorted samples &  
labels for R7A. Write letters

have & film in evening

I or returned 2200. Satel  
airphoto & maps. Bed 2400

Thursday 21st January 1965

Rise 0715 + complete packing.

Breakfast + shower at 0830.

Ascertain no flying because  
of weather (low cloud +  
25kt wind, intermittent snow,  
visibility 1-3 mts)

Discuss accommodation w. OIC.

Sort equipment brought ashore.

Found suitable accommodation  
in PID canteen for geological  
office, check w. OIC

+ move in 1500 to 1730,  
organise working facilities,  
heater & set up as office.

1900-2000 Discuss w.

R. Dutton on flying program  
Tentatively agreed. :-

1. Helicopters to from PK  
to search for landing ground  
for Beaver.

2. Beaver w. Kirby & ~~date~~ <sup>Foley</sup>  
to From PK, & return empty
3. Beaver to From PK  
w. 'captor' back to From PK  
& return empty
4. Beaver w. Trail &  
flight camp to From PK.

Later

5. Carry & assist by  
Beaver to From PK.
6. Kirby & ~~by~~ by  
Beaver to ~~Laurel~~ Rd.
7. (movement) Trail taxi  
by helicopter in Haden Mts.
8. Trail return by 'captor' the  
pouches taxi at ~~Laurel~~ PK.
9. All return Haden
10. Trail & ~~carriers~~ short  
runs by 'captor' in Fences  
Mts & ~~valleys~~ near Haden.

Later shot a bat in cave

1 bed 2200.

# Camp, except Trail

9

from Houston side

1 Tent Bed, complete w.  
bags, guys, & Aluminum  
poles.

1 Mattress Lilo.

1 Spade

1 Ice Axe  
1 By, gear cover  
1 Stove Primus.

1 Funnell, belote.

2 PKts "Esbit", solid fuel

1 Knife-fork-spoon set

1 spoon

1 tin open, lever type

1 Alumin. Bowl, Aluminum

apt 6-pint

1 Kettle, aluminum, 3-pint

1 Bill, can " " 2-pint

1 Bowl, " " 1-pint



- 1 K - Sugar, 5 lb  
 1 May meal.  
 1 Plate Alum.  
 1 ~~Box High Test~~  
 12 For Cakes (old stock)  
 8/12 Box HFG  
 18 pkgs bicarb (x4)  
 1 ~~Whisk cream~~  
 2 Tins Butter.  
 6 pkgs Instant Malted Milk  
 1 doz ~~Box Malted~~  
 1 lb Dried Apricots  
 1 pk Egg Powder  
 Tint & ~~color~~  $\frac{1}{2}$  lb

Sum

- Sugar  $\leftarrow$  2 lbs  
 Oat flakes  $\leftarrow$  1 lb  
 Salt  $\leftarrow$  1/2 oz  
 Milk  $\leftarrow$  1 lb  
 1 Tin ~~Tin~~  
 1 Tin ~~Coffee~~
- for  
Cakes

Diary - Friday, 22nd. JANUARY, 1965 00

0745 Rise & breakfast

0830 select & prepare camping  
equipment & food for Fram PK  
trip.

1230 - 1300 Lunch  
1730 Complete preparations & deliver  
list of equipment borrowed to  
OIC Hawson.

1830 - 2000 compose helicopter  
program for Hansen Mts &  
deliver to Bob Dalton. Discuss  
airphotos Fram PK. w. Whit  
Beaver & copter captains & surgeons.  
2000 - 2200 Prepare geological equipment  
maps & photos for  
Fram PK venture.

~~Unsettled~~ A fine day, cloudy  
in morning but 10,000 ft base,  
clearing in afternoon. One Helicopter  
out of order all morning. Fault  
located in hydraulics at 1530,  
& remedied, & test flown by  
1800. Then all flying crew early  
to bed since all working on 'copters  
all day. Fram Peak Trail  
postponed til to-morrow because  
Whit's unfamiliar snow conditions

+ plenty of time essential.

little advantage to geologist (on 3rd trip) in ~~proceeding~~ for beginning this evening, since 200-mile flight involved (From + return).

Bob Dutton appeared pleased with map presentation of taxi program for three Mts. In discussion at tea,

Peter Bygott said he was disturbed at the OIC's preoccupation with tidiness + his determination to make Halverson the best station in Antarctica. Peter said simply that he thought the best station should be the happiest station, + tidiness, discipline, & ~~restrictive rules were~~ controlled behaviour were things that should follow from happiness.

E.g. he had scrubbed out the Radio Office this afternoon, + because of duty he had missed the OIC's lecture on tidiness the previous night. As a result he was very concerned that the OIC should think he (etc.) had scrubbed his office because of the lecture, when he had scrubbed it only because he liked to see it clean <sup>been</sup> + it pleased him!

From pleasure & not from ~~fear~~  
~~or~~ obedience.

I commented that if the OIC was  
saying things like this, he would have  
to do an awful lot to live up to  
his statements. And if he didn't - finish!  
- a laughing stock, another poor  
old harassed OIC.

Saturday 23rd JANUARY, 1965

Light <sup>SE</sup> winds, 4/8 cloud,  
up 0730, dress, breakfast & up to  
dixie apt. Whiting & Farley off  
in helicopters at 1015 - after  
pre-heating & warm up beginning 0830.  
Whiting to Rasm Doodle, Farley to Twintop  
w. ~~star~~ rations & spools for Cary.  
Choppers back 1200, report near  
whiteout at Twintop solid cloud  
from Etho's to W over ice sheet,  
& cloud out to sea. - Adjoin  
for lunch. 1230 - 1400 assist  
W. Edwards Sen. Des. Fleck w. water  
run to mess - getting soaked as  
usual, 1430 H. Lied made weather  
reconnaissance in choppers,

advised no more flying to-day.  
Helicopters then took up instruments  
to calibrate riometers. ~~4~~ 1630  
to 1400 - 1530 Select site  
for age determination samples,  
discuss drilling & explosive w. K Wator  
& W. Edwards, Des. Nchs. 1600 Load  
equipment on 'copter for Rurn Doodle  
& see off 1630.

1645 - 2100 - very solid job working  
concrete mixer for assisting P. Beasley,  
carpenter, to lay base slab for  
Dines Anemometer in new met. hut.

No tea 'til 2100 - I was critical &  
disgruntled at first at ill-timed  
~~vent~~ job, but caught the ~~for~~ new-  
party enthusiasm after a while  
& finished with a swing. About

2130 Pat Beasley fainted & fell  
off his seat while having tea  
so evidently he was under quite  
a strain at having us working so  
late, & from overwork. It's a terrible  
thing that the stresses of modern existence  
should invade Antarctica, but that's  
what is happening. P.G.L. was

looked very drawn & harassed when we returned from the Stillwell Hills - & even we found waiting for the Choppers something of a strain. Bob Dalton said that when he left the ship he felt as if a huge weight had been lifted from his shoulders - the weight a result of harassing tactics by all concerned w. the choppers - & so it goes.

The cook has a rash - & is cooking for 40 men instead of 25. The OIC is being up well, but is a bit tense because of the chaotic state of the equipment & of the possibility of a rescue party being called out.

John McGhee slotted a D-4 last night, on the dome abt 5-6 m. S. of Rinn Doodle, after taking the NW up urgently, & while returning with a broken-down weasel on the sleds.

He & Peter McGrath walked home.

Maybe I don't take things seriously enough but I DID NOT COME DOWN HERE TO GET ULCERS - & when we got back from Stillwell, I am looked as if he might be doing just that - he also was under quite a strain.

Now perhaps we will not achieve much in the way of results.

but let's not get grey hairs over it. We can only do our best geologically, if we cannot mentally bulldoze the pilots into flying, let's not harass them & do in trying too hard. Much better to co-operate & lessen this damned strain business.

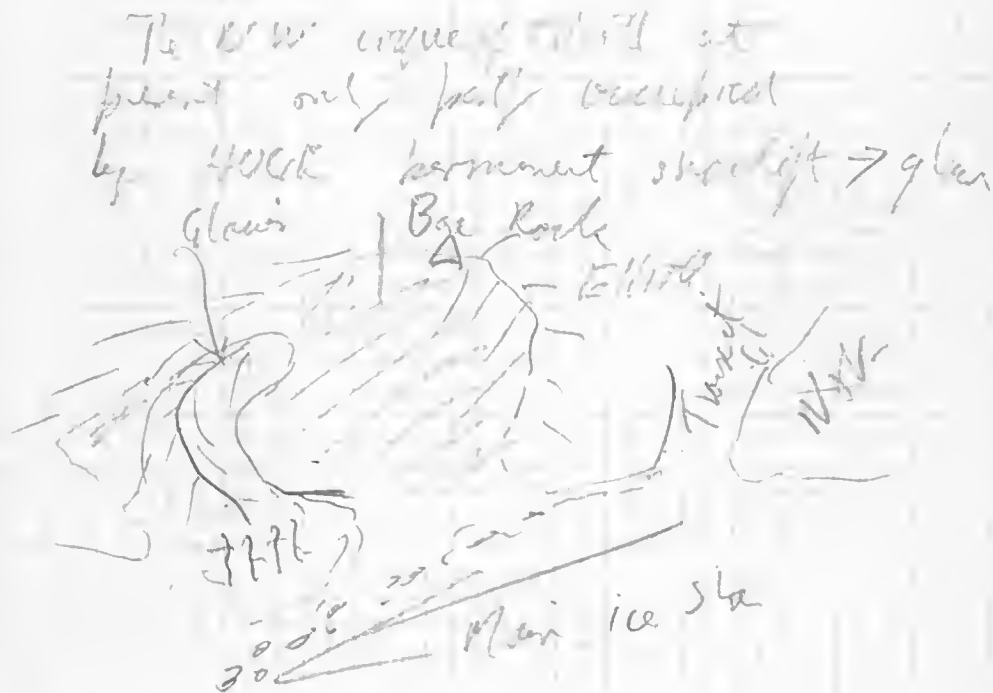
Got pleasantly merry at the movie, a wacky but enjoyable Western, on the ration of 4 cans plus some plunk (rainfood) produced at supper. Bed at 0100.

---

~~Diary~~ 5 Flight to From PK, 24/1665  
Painted Hill - Fromas, Melasod  
of a sort tilted to the North  
End. Only Painted Hill Belf is  
good red & white banded. The 'North  
End' is some as 'Contact Peak'  
banded but chlorokitic, yellow  
brownish colour prevalent. Deformed  
(wavy ~~~~~) white bands &  
less in ch'okite. Better banded;  
don e.g. Herobson.

Phillips Ridge also looks like banded  
melasod. N to north is chlorokite  
chlorokite

Mt Wad NW corner  
 most impressive. Ridge  
 V. thin, steep base-slab  
 sides <sup>high</sup>  
 Much ~~water~~ flow. No Elliott  
 W.W. corner. <sup>metres</sup>  
 No metres N. of Elliott  
 David Ra.



Rough patterns in snow on  
 Casey Ra E. side long cracks  
 suggest by polygons.



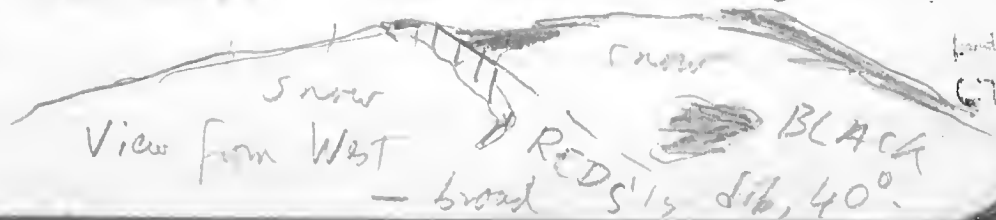
W. side, Casey Wavy "pyroxenite"  
white bands appear to str. W-S.  
in reddish rather massive host  
rock



(Twintop & Brown Ridge align  
w. Casey Ra.)

N. Peak of Noyes - Peace has  
massive appearance & buttressed  
sides, like clonachite of France. ?  
may be clonachitic green green?  
of Mill Pk.

Baillieu Pk & Mill Pk  
have active glaciers in  
cirques on their W.W. sides.  
~~Mill Pk~~ Baillieu Pk, has variation  
black & red rocks, NOT typical  
clonachite.



The East Hansen Mts form a  
step in the surface of the  
ice sheet, prob. 100 - 300 feet  
high

16

East Hansen ~~has~~ <sup>have one</sup> smooth  
spire - domokite style

\* Mt Bonfield is similar shape

Huge ice sheet wall with  
crevasses in west, S. of  
East Hansen, several hundred ft. high  
Morphology of E. Hansen, reminiscent  
of Sor Rondane as described  
by A. A. Høiberg.

Mtks N. of Trom PR

are red felsic banded gneiss

w. thin bands  $\Rightarrow$  100' thick

1 ft from 1' x 10' of  
dark mafic gneiss. also  
say are gray-casting mafic  
gneiss banded, but are  
thin & irregular. Half  
dike. APT 100' x 2'

stepped up cliff face  
small lens biotite-garnet  
rock in place, light brown  
f. spec. rich pyroxenes  
concordant say 5' thick  
+ thin band m.g. iron-  
stained rock with iron  
bearing rocks still well within camp.  
- The first peak climbed  
had regular & thick bed  
felsic gneiss 10' - 100'  
dip vertical str. 2W-S. fac. m.  
The rock N. of Fern PK  
has strong passively deformed  
lenses mafic gneiss - US  
continuous bands - in  
red felsic gneiss - & the dip  
is about 15° - 20° - gneiss str. 15' - 20' thick

DIARY 24th January, 1968.

Up 0830 - gusty wind, to 11.0  
& found 40kt gust, see R Dalton  
confirm no flying. Wrote  
up diary complete pubs for  
Fern PK.

1230 R. Dalton called  
me, because favourable

forecast.

Decided (Dutton, Anderson,  
Whiting, Kirkby Trail)

1. No flying after 2200  
a.e. Kantabatic.

2. Attempt 1st Kirkby  
2nd Trail by Bears to Fern  
PK.

1430 Depart Maudon by  
chopper for Ram Dangle.

Assist prepare Bears, Kirkby,  
away at 1540.

1930 Bears return.

A, B.  
[SAMPLES] for pale grey  
clay, 15' thick, in  
ridge from PK. (low grey  
green mud at base of ridge)  
magnetic rock, 14' high  
to flapping white light  
mud grain.

Dinner continue.

Refuel, load on, measure  
W. by + 36000. Hinges on  
Swain. Take off at 2000  
I'm good waiting fly to  
T. on P. H. on M. V.  
1000 ft of S. on P. on M. V.  
huge ice wall behind, matter  
- horn peaks. Load at 2100  
unfired + B. on M. V. take off  
at 2130. Set out set up  
camp at S end of range  
by light + had returned by  
cable to S. on M. V. He should  
my light, I had received  
+ we set off to cross  
range out of camp. Up  
steep snow slope, I was very  
slow walking + out compass  
on on slippery snow.  
Reached rock at top of  
steep snow slope. On to  
dark hard slabs of ice banded  
green, then easier but  
rubbly steps of black green.  
Very awkward in the snow - 35 lbs

& ice and, & smooth mucklakes  
 slipping badly on icy patches  
 between slabs. Not terribly steep  
 but cold & windy, side-coring  
 w. sun vanishing over horizon  
 Syd dropped load & ran up  
 to top. Reported continuous  
 out-blow all along east side  
 of range. Very unwilling  
 to descend reliably & icy  
 slabs so along black  
 band to crest of ridge  
 & decide to descend gully  
 on south side. Gully a honor.  
 I had been getting the knock  
 on the slabs so asked for  
 rope for gully. Syd gave me  
 120 ft down - very slow &  
 very dicey, poor iced holds  
 gusty wind. I was knocking  
 on all sustained holds. &  
 awkward chipping away ice

from rock below & smooth  
mudstone V. slippery on ice  
bed. I improved tremendously  
w. rope, found better rope marks  
Sgd. narrow. Sgd. under stony  
V. slow down 100' amount  
the last day for 20', the  
hazard is long & do we  
last night down. Sgd. told  
my a short blizzard with once  
while being up, he had a  
good time long time - now at  
2400 - I had climbed 2 peaks  
while in up & waiting for  
snow. Finally got down  
fully, took down V. slow  
slipping, then a break  
to clear long snow slope  
Sgd. glissaded down it &  
found it only cost 100 ft.  
I came down, got in car  
& we went to the lake for  
first night with mungies,  
for the house to the north of  
the valley we a tangle

of high angle wind snow.

We were so relieved to be out  
of the gully, that we didn't  
mind the extra distance.

22

We found small crosses + irregular  
snow-filled holes in the blue ice  
in the next pass. No trouble but  
we roped up when we got on  
to snow. Syd was going very  
strongly now, but I was very tired  
& dragged along at the end of  
the rope round the corner & up a  
long steep snow slope to the camp.  
We had a 25 kt wind & moderate  
drift right in the face all up this  
slope - & I didn't really see  
where we were going, just one  
foot in front of the other, chugging  
on the end of the rope, wondering if  
this would ever stop. Finally  
some large lumps showed up on  
the skyline, & we found the gear.

~~How~~ Syd ~~manages~~ did very well  
to locate it straight away, for  
he had dropped it from the  
cabin in a great hurry.  
A great relief to drop the pack



+ stand up straight. to 0215: but  
didn't mind making camp. Most  
gas outside, into tent 0300, coffee  
& soup, & into sack at 0430.-  
very comfortable in down suit & I  
sleeping easy, though temp. prob. abt  
-50 F. - tiger country after Stillwell  
Hills. - (A quick trip to the tiger country)

Monday, 25th January 1955

Up 1130 - dry roller out of drift  
snow & ~~ice~~ by 1205 but no  
answer to calls. Last night I found  
the altitude kept me quite breathless,  
& windy, the generator this morning was  
very difficult, transmission kept me  
gasping & gulping for air - we ate abt 5000 ft  
Ponitz & ~~raw~~ bloody steak for breakfast,  
~~then~~ not lunch, 25 kt wind dying  
steadily. Up snow slope to rock  
ridge at 1500, Syd w. batteries  
tripped & assorted gear on pack frame,  
me w. Fella. skis. Contact Morupf  
short way below summit at 1600.  
then set up station just below summit  
(no cairn 1st ↑) 1630. I booked  
tellurometer - but first Syd

pointed out a striking bright  
green pyramite - v. odd.

Syd speaking to Rod H. v.  
using the tellurometer - but  
could just see absolute summit  
of Lickie Ra. Hopes can occupy.  
Rod told us Beaver on way  
then Beaver visible, circled base  
& landed. Some consternation w. us  
when 2 people ~~can~~ emerged, & I  
stayed vs Beaver took off - deduced  
John Foley to replace me.

He started walking across  
snow, stopped at blue ice (part  
on crampons) & to our horror,  
set off, naturally enough in  
last night's tracks!

We finished readings & set  
off down ridge, sampled green  
pyramite. I then to saddle.

Syd said he would glissade down  
W. side From Pk. - beautiful snow  
slope 200-300 ft - but I said  
I'd go as he had appointment  
w. Rod Mough for further obs.

Gorgeous glissade on hard & soft  
snow, easily controlled, then  
over blue ice in patches

tracks. No crampons, but had ice  
picked. to find mukluks gripped  
well on blue ice of all snow  
brushed off sole. Set off  
up snow slope leading to  
cave near our gully, but thought  
I saw a figure ~~below~~ down on  
airfield. (I also thought I saw  
figures on the ridge, in the valley, &  
in several other places.) Decided  
Foley had returned to airfield  
& ~~but~~ I cut out there away  
from mountain. Had to traverse  
off steep blue ice alongside  
cutting back (finding col above)  
but found that mukluks gripping  
well on surprisingly steep ice.

Galloping down towards him  
I looked round at ~~steep~~ snow  
slope we climbed last night,  
& gulped when I saw on  
crest the figure perched  
right on top. Howled, shouted,  
hollered, & waved arms, &  
he replied & I was very relieved  
to see him turn & start bounding

26  
a kitbag sliding down snow in front  
of him. I ran up across the  
ice & up slope toward him - I  
was feeling very fit now, & ~~at~~ a bit  
wound up. He came down to  
meet me & said - "I wish I had  
seen you 10 minutes sooner" because  
he had slipped into the bogenschend  
filled with soft snow, while trying  
to get on to the north. However  
he wasn't cross at having to come  
down again, & he gave me the rear.  
Choppers supposed to come out  
with Beers to do my taxi, & take  
me home with Beers on  
2nd trip - but one chopper  
out of action, only decided  
when Beers airborne so John  
thought he would try to find us alone.  
Fortunately he had crampons on &  
had only 1 light kitbag, so  
long stay time, somewhat a boy  
& slow passage over ~~over~~ some  
with carcasses south of airfield,  
which I had passed close in  
to a range on steep ice.  
Now John was fairly altitude

+ I was already much later. Got home 2100, after Ben's supper him at 1745.

Syd. down from window about 2330. Relaxed supper & chat, & wife back 0100.

---

Tuesday 26th January, 1965

ANT 79, Run 324, 9017R+3016V

Pt 443 On From PK ~~near~~ 10yds

N. of Survey Pt. The range

N. of From PK. is banded gneiss,

the felsic member is red &

commonly coarse grained dom.

feldspar, some red some white,

blotchy in detail, clear quartz,

& dk mineral unknown & not

abundant. The red member is

predominant in the bulky and

member of From PK, hence the

"granite" of Nelson. The felsic

rock is well foliated by streaks

of, m.g. quartz, & the

feldspar component has a X-shy

foltr. v. shry, giving the rock

a flagger pattern in places.

8 in. often a slab,  
interbedded with silty  
material with the stepped  
~~one~~ mafic grains.

A 150 ft zone, at the base of  
or S. end of main pk contains  
mafic rocks interbedded w.

5. Given that red fish are common  
in the lake, the lake is common  
as far as abundant land (3' x 5' high)  
but not (size) small.

over the whole of the

~~\_\_\_\_\_ D \_\_\_\_\_~~ T-35

Transit  $\Rightarrow$  10-15%  
metabolic wastes  
- 2% protein, 4% fat  
- 1% carbohydrate, 2% alcohol

Small

T-36  
(x3)

? molybdenite, ? graphite

Run platform - summit  
ridge > 50 vert. ft.

19. gr. 4 Van. br. rocks  
e. prominent best bedded.  
from Pr. Quartzite 5

SAMPLE

T-37

(Quarterly)  
SAMPLE

T-38

Red 4 3 sh

Massive white hard, & flaggy quartzite  
? sheared, E. of limestone & N. of Sarnes Pt.

Pt  
445

minutes

The first thick & continuous  
argill. zone, some 15' or  
more, followed the massive  
calc. circular Form PK (red  
white). This argill. zone is

SAMPLE  
T-39

5' + 4' in. g. but  
contains abundant bands  
of thin & thick layers of  
a few feet thick of red argill.  
material, f.g. to permatite.

In the pass between  
the Form PK is the red-  
dish beds of Form PK from  
into (probational) f.g. &  
10' g. red & white flaggy  
quartzite which looks as if  
it has a strong limestone

flaggy bedding to 70' to 100' M  
quartzite dip: 50-100'

In the pass is a thick prob. limestone  
bed of quartzite.

Pt  
446

SAMPLES

T-40

68280073

NO  
CO

quartzite. Dips  
of quartzite  
to sand beds, abundant

? essential small brown xls  
 of ? spiral, clots of  
 biotite → 1 foot area, small  
 & uncommon. clots of  
 garnet, & in the place itself  
 a mass ~~over~~ 20 ft. long  
 of dark green & bright  
 grey micaceous biotite, or  
 with ~~not~~ biotite, calcite  
 & magnetite. Other small  
 clots like this mass appear  
 elsewhere in the formation.

It is represented by the many  
 unlabelled mineral samples.  
 Only the small grey, cr. gr.  
 rock is typical.

The py 4th quins. str. 165/  
 70 N/E. The py ~~thick~~ <sup>thin</sup> instead of  
 but sometimes E.T. when the py  
 is at least 100-200 ft.  
 It ~~is also~~ <sup>is</sup> 3 or 4 ft. thick,  
 only 1 of which shows the red  
 & quartz, narrow to 30 ft wide  
 dipping under snow.  
 The py is better south on



From large still waters red  
fibre green boards few mm to few feet  
thick.

DIARY Tue. 26/1/55.

Up alarm at 0915, sched at  
0930, but no reply. Byd. first way, job  
done, then out at 1200. Along ridge  
to Peak, mostly gusty wind 25-35 kts  
w. occasional patches of drift.

Down to main peak past survey station, cold &  
wind discouraged geology, but some magnetite  
in pegs. Back to survey station then  
on to Bennett in saddle & dry  
& scratch for old mineral all day.

Back Peak at 1735 & home down  
mountain, wind & drift now strong,  
stronger 35-40? Down to tent  
& begin to dig out door where  
Borer sighted. He made 1 circuit  
& headed home again. Spent time  
to contact on radio, but nothing.  
Into tent 1900.

D

Thurs. 20th Jan 1965

8016 V / ANT 79 / RUN 324

Outcrop PK NE (10)

PT

447

of crystalline & 1/4 of

Kishinouye

Sample of red, black  
for dark chocolate & white  
bands forming banded quartz  
has in proper

Red - 74 / Chocolate - 30 / white

to white, present some  
rock in place -  
just cut across rock  
in place.

SAMPLE

T

41

65280074

T-42

T-43

Red bands mostly 5' - 20'  
some 1' some 100'

Black bands mostly 1' - 20'  
V. rarely 100' & many  
1' to 20'

T-44

6580075

white band 3'

Some layers of black band

The morning program  
the stationing of the  
7th stop is at the  
highway - 1st rd &  
2nd chocolate road. The  
first road is very much  
alive, dark brown -  
but the 2nd road is  
black rd, & the road  
is sparsely with  
a rail at either side  
the road at 1st rd is  
by

The road is very  
wide & a slight  
by, the road is very  
dark brown & on

The road is very  
wide & a slight  
by, the road is very  
dark brown & on

By the way, the road is very  
wide & a slight  
by, the road is very  
dark brown & on

Ch. shale

old 1st

Strat. 1st, 2nd - red bed

3rd - white

4th - white

W. side

with this and an  
important part - showing  
well in the old 1st str.

Dip 70° at NW corner

Comparison old and new

placed in the old 1st  
stratification. The old 1st

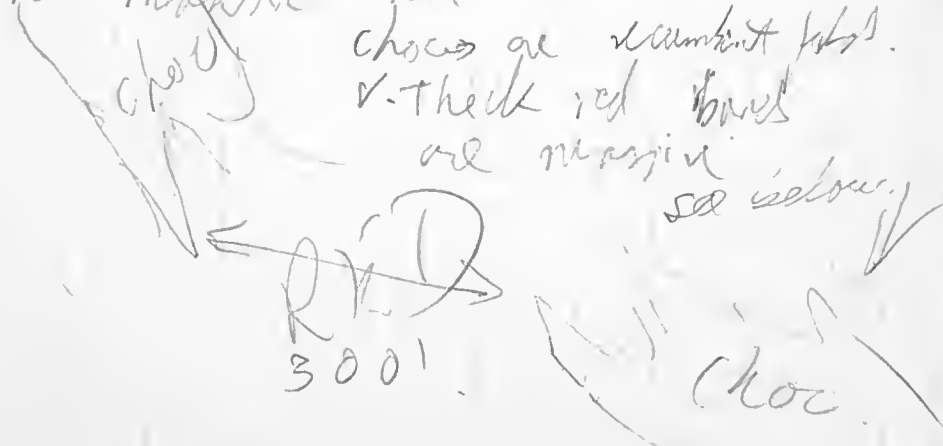
W. side N. ridge sudden  
cut out of chocolate bank  
in massive red bank

choc. are abundant fossils.

V. thick red bank

are massive

see below



Altitude - approx. from 4,900.

- More to a sparse white  
bands  $\rightarrow$  alt 3  $\rightarrow$  5' thick  
on outlying peak sampled above.

odd low small white N. of main Fran  
ridge - small peak to N.W.

No buttoned ground on Fran,  
seen on flat w. <sup>fine</sup> rubble on main pk,  
& no obvious evidence of  
accumulations moving up to ice  
between peaks.

Very large scale snow style fields  
on Fran N. ridge, N. Fran.



Hansen SEE 1:100,000 maps for Structures

7110L / ANT 79 / Rm 325

Pt 448 a white band 20'  $\rightarrow$  40' w

thickened by positive folding, plunge

exposed on str. SE / 70° SW

~~Pt 451 No photo. Shd. be 8115-8116 (not 1115)~~

2 Red if banded green w. may <sup>Photo 8116V</sup>

4 white bands, few dark ones

3 v. like from Pt.

photo 8112V, Pt 449.

3 is intensely contorted in

reformation of white discordant

bands. This is partly apparent

& is seen on a dip slope.

The white bands are marked

transgressive & also ap-

to be intensely deformed in positive style.

Block 5' most north of 2

& other red rocks all have

white bands  $\rightarrow$  50', 50'

70% red : 30% black white

3 Loss gradations in bands

White - red - chocolate.  
is effectively vertical w intense  
muscle fold.

2 has numerous fold plane  
in str. & from. lamination  
in dip to SSW at  $70^{\circ}$ - $80^{\circ}$ .

pt  
450  
photo  
71106

Landing pt IV of #1  
grt v. fully, intense granular  
quality of stripes of biotite,  
garnet, pyrox in red &  
white felsic rocks. Fully  
massive for metabone in  
red, white country well  
defined but also grad into red

T-45 (K) - 65260076 White qtz (metal. min.) m.g.  
& garnet. 2 f.g.

T-46 L 65260077 Red (dark brown inside)

T-47 M 65260078 black - B-G-F. Red G, m.g.  
- P-B-F. 2 f.g.

Few & disrupted  
black rocks only here. No

continuous band. V. like tyla Glines

Str.  $140^{\circ}$  M / Vertical

& 1, 2, 3 effective vertical - 37

On large scale also, black & chocolate

rock is discontinuous, 100, 8  
or blobs  $\Rightarrow 15' \times 5'$ .

88  
88

~~North~~

Eastern horizon all red & white  
filly granitic with tips vertical.  
above massive ferric, as above.

West. Hansen Mts.

8085V

4

? ~~Massive on shadow side~~

PT

452

Massive red, slabby

v. further white base. st. all 45/

40° West (rather like Campbell Hd).

1 thick transgressive pegmatite

~~8078V~~ dyke on main log ridge.

PT

453

~~"Massive" red as above.~~

5. massive gran, v. poor. fault

8078V

Sample East crop.

PT

453

The massive poorly is not  
an v. well foliated. Silly  
granite with red brown ~~matrix~~ &  
thin ~~sp.~~ in a representative relationship.





NO PHOTO. 1/2 m SSE Bonfield & V. 500m

6 has ~~dark~~ white bands, —

massive red bands which  
"state" the chocolate rocks in  
section. style pale as it  
from PK. Brady contact

40

AVT 37/RUN 13.

Photo 9087R & light grey & dark red-dark  
Pt 457 finely banded rocks interbedded  
in ~~comp~~ almost entire fold.  
Dom. strike along ridge →  
Hr Bonfield. Dip varies.

8 Red & grey rocks complex  
Photo 8084V  
Pt 458 interbedded w. white  
saggy bands → 5' thick.

9087B. South —  
Pt 459 SAMPLER Point at West end T.  
The light grey rocks are

SAMPLER green & light black.  
T51 100' long, 10" wide  
& 1/2" - 2" thick  
T-49 65260670 green

D-F & D - Calcite bands?  
Quartz possible in some & ? spinel. P.P. &

f.g.

plunge 100 ft. down. 100 M.

cut + A sm. The main

the whole world f.g. / open tubular

3 inch stick (or more)

plaster - not a v. cross

SAMPLE

52

0157

the whole world of

back - m.g.

compared to f.g.

sample

Poor fol in  
by bands felsic.  
G-B-Q-F, f.g.  
some m.g.

The main edges

100 ft. down

cut + A sm.

the whole world

back - m.g.

compared to f.g.

sample

the main edges

100 ft. down

Very dry, mostly from  
 the 10th. The 11th, 12th,  
 and 13th are not so dry as the  
 10th. The 14th is not so dry as the  
 10th.

The str. of the 10th is  
 like 2.5m. considerably.

It is a contact. The 10th is

Basaltic. The 10th is

The 10th is a 5m. section

each side = 30' x 3'

of the 10th is the 10th

10th and 11th are the 10th

10th and 11th are the 10th

10th and 11th are the 10th

DIARY WED 27th Jan., 1965

No reply to 0645, 0900 & 1200  
 sched. 25Kt wind 6/8 cloud  
 in morning. Kirkby & Foley  
 up hill in afternoon for tellurometer  
 work. I stayed in tent all day

on account of weather, clearing up,  
studying, ready to sail. Finally  
ready, Dr Zhurav. K & F  
back at 1800 pm - prolonged dinner  
& bed abt 2200

DIARY Thursday 28th Jan.

No oncomer to 0645 sailed  
0900 Beaver flew over & turned for  
admiral. Syd hurriedly loaded up &  
left, & I followed abt 1/2 hour later.  
Considerably cloudy & 20kt wind, ground  
lift so needed no drops.  
Sampled peak east of island, &  
saw Beaver leave Inman. Down  
to meet Max Corry, trot back  
to field for ration pack, then  
back with Max to camp, repair  
for ice axes here & there. John  
Whitty clearly doing a marvellous job  
with the Beavers, but 'captains  
sadly lacking.

Coffee & biscuits w. John & Max  
abt 1430 when head of  
approaching. Loaded picked me  
up (necessary to hold on to  
captain, on snow slope, &

it slides away before the  
pinner is cut.) Refuel at  
airfield, then taxi down east  
to west w. 3 landings only  
~~one~~ on easy site because of  
wind. Back to camp, John  
Atherton almost out of fuel 99 runs  
instead of 80. The 'copters return  
empty to Dawson abt 1830.

44  
44  
Abt 1930 Bear crawled, coming  
in from Leckie, & landed for  
landing field. Figuring that he  
may have land on radio I was  
ready. To come home, I packed  
my gear in a pack - 50 lbs!  
(fortunately choppers had taken rock  
specimens that afternoon) - &  
rocketed up hill, hauled to  
summit, & glissaded down peak  
w. geological hammer (hook of  
Scotland & my youth) & galloped  
over ice with following wind  
only, fell once, on a big

lump of ice. A bit worried about  
crisis because of the 50 lbs  
load, but went to truck. Waved  
& talked to John Whitten, & when  
I got to him, he told me he had  
barely enough fuel to get back, but  
had been instructed to pick me  
up. He had 28 gal & estimated  
25 for 1 hour for 100 miles home.

Flew clear of cloud, intensity,  
some 30 miles from Fram. No incident  
to Tom Doll. Picked up by 'copter at  
2200 & each camp 2230

The Hovner Mountains are  
composed of finely banded greenschists  
which with a pattern of  
recumbent-style or isoclinal style  
basine foliation throughout. On  
some outcrops, thick bands of  
white, quartz-rich rock cut  
these deformed greenschists, & ~~are~~ form  
a coarse & ~~some~~ in places  
markedly different foliation.

The style of deformation seen  
in the foliated greenschists <sup>very</sup> may  
of them are in nigmatitic relationships

with yellow brown pyroxene.  
From a distance, the full  
greenish apricot massive, the  
foliation is much more delicately  
expressed than the banded green.  
But the white ~~and~~ bands or  
some micaceous grey thin  
a superficial resemblance to  
the banded green - though they  
are unlike any others.

One diabase - felspar rock w. thin  
bands f.g. khaki rock, may  
be a metamorphosed limestone.

It has a very irregular foliation  
about kninkly & semi-belted  
rather than banded. Looks like  
a low-grade rock from the air.

In map - Mill PK Road, one  
to stop at is by one 2nd  
from coast. ~~It is a diabase at the end~~

Open with low station up  
(see road)



Rem. fresh, in thin part ice  
to W. and Up I.

Otherwise much as before, but ice  
now with some large pieces  
(1 mile - 2 miles), almost  
equal to Mt I. as the I  
is from the shore. Part of it  
may have broken into pack  
of sorts.

Friday 27th January 1900

FRANZES MTS.

Mt. Kithuan strike of rare white  
& red bands along length  
dip steep East or West.

Panted Hill is very pale in color, as  
grasses to West - not clear banded &  
not dark. Contains a few dark lines  
& bands but  $< 10\%$

IV. Mason is almost blank white,  
by main w. in ill defined, possibly  
spaced but good pattern  
where 10th (i.e. in corrie  
hollows) S. of R.D. Some cross-  
slope stripes in corrie IV. of Ward.

V. large polygonal strongly  
colored rectangles, at  
S. end W. Masson, on  
mossy blanket.

48



AWT 76  
R. 306

Ferguson Pk is massive chert  
w <sup>a few</sup> ill defined whitish bands  
~~or sh~~ lens.

9061R

Px  
460

Phillips Ridge metamorphosed dip  
under clonochite of Ferguson Pk.  
Boundary at W. end Phillips!  
~~Phillips well bedded but~~  
w. darker bands more of them,  
than Painted Hill, sep. by  
whitish & lt. grey streaky  
band  $\rightarrow$  20 - 50' both

Keep lt. grey gen. thinner for  
dark brown & reddish brown  
bands. W. boundary v. c. tubular.  
Phillips L. 4012 N. end S. end  $\rightarrow$  30° N. end  
at reaction in chert.

A few whitish bands in ch'chite of  
Lauron resemble whitish bands  
in ch'chite w. dark brown green at  
Phillips. At Fagera ~~depos~~  
dip NEward at alt 50°.

At Coates m'ss. pallid line  
pale red hill exactly, even to faint  
dark band. Str. ~~about~~ N-S //  
Dip, dip problematical - see  
photos. Some a similar hill  
some a Mt. Elliott method, Volume  
as Gap Wk - ~~the~~ it is much  
narrower.

Flat tops stat. scattered at  
Twin top. Some of Brown Ka  
is flat, some pkts. Some at  
Hannoverary flat, out line  
others. Bypass is pale, ~~translucent~~  
rounded.

9074R PRICE & V. HULLS ALL CH'CHITE

Sample pt at PRICE in

461 massive m. gr. + co. gr.

ch'chite w. few large feldspar

1 xite w. no large quartz, +

53 similar more ch'chite than m. gr. w.

large quartz. Absolutely massive.

4 remarkably ...

Para to Van Hous ...  
 upper massive, all containing  
 ch'ckite. Suggests E-W vertical  
 foliation on one, but prob.  
 jointing.

Mylonite band on V. Hous sops  
 SSW at  $\alpha St 30^\circ$ .

1260 is ch'ckite & is NE northward  
 both jointed // elongation

No foliation visible. No large-scale  
 folding.

SPRINT 1260 S. neighbor character  
 484 dark brown w. ...  
 + brown. whitish f'sp. ...  
 462 on weathered face. ...  
 on. ... green. No  
 clear foliation in rock. V. fine &  
 small ...  
 But strong, slabby, jointing  
 54 spread ... 3" ... str  
 300M / vertical.  
 517045. 1260 S.

ANNIVERSARY

Chloride is nearly gone & is not

20% milk. 1.5% fat.

1950 10/10 10/10 10/10 10/10  
 1951 10/10 10/10 10/10 10/10

no moral, not utility,  
not religious.

Sp. 600M / 50mm.

This filled sand valley  
was 14 feet in width  
- 4' in depth.

low vague pattern of  
contour stripes, reddish  
brown. Field Shrike.

alt. 2/ max.      Boulders scattered.  
 dry patches.      A. v. few +

Draw. at 2'-4' (five centres)

Plum 6"-1' : Pericarp of

51

raised abt 5" - 1' above margin -  
depression bottoming, but is  
topography of the boulder field  
is dominated by the top of the  
underlying rock. SAMPLE

bt. on top this west side of ridge.  
Rest of Amivray looks pretty massive.  
No obvious fault. from air.

### WALKER NAT.

100,000  
MAP Rest brown, massive, no  
PR obvious fault. strong west jointing  
464 Str. NW.

Dark red brown. somewhat co.  
gr. w. large feldspar & some

X 15 mm. Grained feldspar  
by mineralized feldspar +  
quartz. Str. 70° N

fine grained, but some places  
the grains do not follow this;  
are tabular. Quartz  
here is black & glossy.

5' high of surface elevation  
at Walker Nat.

51

18002259

common, meeting in 2-1-4.  
 So far as in place, as 1100  
 low & less  
Walker Est. Nicholson.

1. V. fine, well, deeply weathered  
 character. Joint str. NE (SE)  
 but no foliation seen.
- 2 (N.) Massive character, 'massive'  
 some foliation str. in elongation (NE)  
 dip slightly, joint character.

McNAIR NUNATUK.

Massive red brown (brown) /  
 character. ~~Part joint foliation str.~~  
 2 joint foliations, but with diff.  
 Not even strong jointing.

FILSON. NWK.

Son. in elongation of wind scar  
 4, thick black lens 20' x 30'  
 otherwise massive red-brown  
 character. To wind scar str. ~~NW~~ <sup>NS, W</sup>  
 T. 4 the top of the black mass on  
 is not vertical. on  
W

# WAKEFORD N.Y.

Pt  
465

T

58

I'll defined relation by  
along f's spec. floor (common)  
4 1/2 thin 2mm spec.  
my limit. The double bed  
is intrinsically small in place.  
Slight copper stain (3mm  
path) loc 4th.

Floor. str. alt. 30-60 ft.  
dip 30-50 NW.

Body should show E.  
surface.

Matrix is cr. yg. 44.50-47.  
dip N. 10°.

A few small thin sandstone  
frag. is in yg. + blue sand.  
5' x 1' 1/2 in. 1/2 in.  
thick.

SAMPLE  
at North end



RECEIVED 11/11/15  
on 10/11/15 D. H. E.  
10/11/15

DIARY Friday 29th June, 1965.

Alt 2330 28th PGL arrived in  
copter from ship. Learned plan  
to call in surgeons.

Up 0745, fresh 30 kt wind. 0930  
PGL spoke Warkby, surgeons  
given another day. Submitted  
flight plan for Fromms in morning,  
then to 1400 modified cat-deer  
dog sledge for free drop to From PK  
camp. Flying posthored by  
forecast severe local turbulence in mountains  
at 1200. 1600 wind calm at  
Nanson, quieter in upper air. Took  
off 1700 to find Fromms.

Too turbulent for landing at Phillips  
King (though calm down still afternoon  
at Nanson) couldn't write in book.  
'copter dropping, shaking, jumping,  
& flashing around. Somewhat apprehensive,  
first time I've felt it's a long way.

way down" from the perspex dome <sup>55</sup>  
Round to Mt Cook, no landing.  
Landed at Price + 1260, bitterly  
cold fresh S'ly blown, 15 kts  
then landed on top of Anoniverry,  
a gently rounded top. Freezing  
20 km wind. On to McNab,  
Filsson, etc. wind dying  
& cloud coming up with evening,  
th on to Dawson, arrive 2030.  
Dinner from Dick Beebe. Pack  
equipment in caisson, carry to  
Duker Mt. Out to ship 2205,  
pack gear into hold & cabin,  
complete at 2300.

The ship brought one large dog  
80 lbs tho he's only 9 months old,  
& one female w. 5 pups only  
a few weeks old, all good  
lookers. The new dog has fairly  
stained up Orkney. who says it

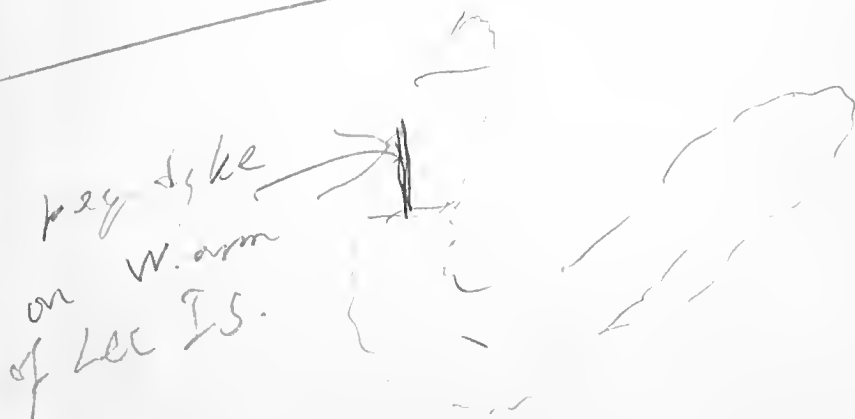
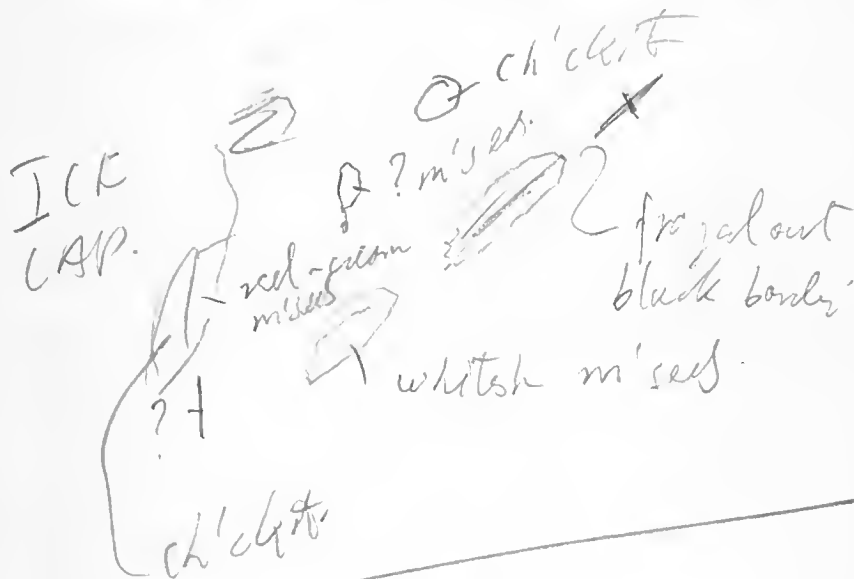
him at the time. Low on his  
other side. quite the staid old  
gentleman, & doesn't pay any  
attention to him.

SATURDAY 30TH JAN, 1965

1st PL 466 1st sample T-59

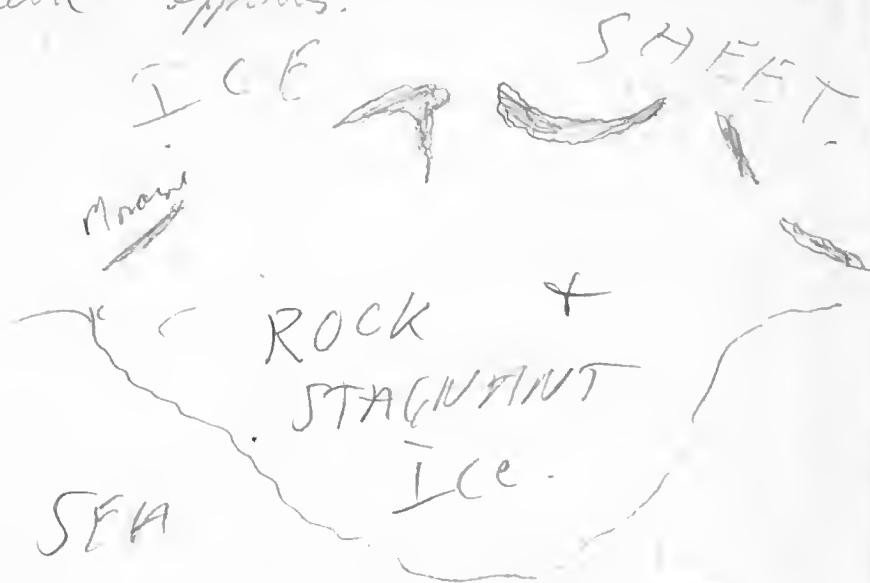
Departure Rocks

Whitish, stuff more finely jointed than ch'ck's.



Shore moraine at Ritz Path  
almost embayed stagnant ice  
crand exposures.

57  
20



Strong N-S (T) trend

thru 'out Rookery Is

Expos on pair close to coast  
swing abt SSE. Colours v.  
deep blue a.c. guano.

? Check II, ? dike in  
S.E. corner Forbes Glacier Tongue.  
strong N-S elongation.

Some light grey band sh.  
in elongation. Effectively VERT.  
Fair banding all along exposure.

poss. not chert, but almost  
cut. Hypersolite rock. No green  
deposits from v. dark grey chert  
colour (today) & from beds &  
bluffs of weathering pattern.

Chert III, Casey str.  
in elongation of No. App. dip.

40-70° E on Wst side  
by white bands low down  
 $\frac{1}{3}$  from S end of main ridge.

466-734

MOVES PK ANT 76 / R 308 / 8184 V.

Pt  
466

massive dk. rd-brown, finely  
jointed

Chondolite pinkish yellow brown  
fine-grained, non-porph. well  
but faintly foliated by aggregates  
dark mineral & aggs of Fe-rich  
material, ranging from 2" x  $\frac{1}{4}$ "  
to 1' x 3" in rounded  
shapes (folds play in dip).

Foltn. str. 750 M / 40° S. (elongation  
Nth) (str. 466)

P. - Q - F rocks w. biotite  
locally abundant in lens.

Straggly irregular patches of  
discordant gneiss w. biotite & feldspar

→ 1' thick  
Sample T-59 the ch'chile

60

PEARCE PK.

8181V

Pt  
467

(Slight dip to  
darker colour at W. end  
Mages, roughly 1/2 along  
weathering, pointing some  
may be studied:

South #. end Pearce. Str 55° N / 65° E.  
much as above, pos. weathered garnets  
are less, strongly foliation even  
better defined by dk min.

cores as thin bars (5' x 9")  
of by lens pyroxenitic F-rich  
rock 4' x 1'.

P-Q-F. dark red-brown  
to dark grey dep. on sunlight.

T-60. 65280082.

8178V

Pearce N. neighbor (100,000 m. by)

Pt 468 As above w. shipp thin

semi-concord  $\phi$ -form?  $\phi$ - $\phi$ ?  
 in slogan: show working  $\phi$  for  
 in slogan:  $\phi$ - $\phi$  of  $\phi$ . &  
 Pend.

The satellite Photo 71744

Pt 468 <sup>South</sup> ~~W. side~~ <sup>lig</sup> Mid reddish  
grey G - ? B - P. - Q - F grains,  
med. gr. texture & weather  
like ch'cherts above, but more  
fines gr., goniat. essential  
& abundance of 'crs gr. &  
v. crs. gr. concordant pyritized  
beds typ 1' x 4', in  
locally migmatitic relath.

W. m. gr. gneiss best  
 Much of the Satecello is dark red  
 brown like the gneissic schists  
 of Pence, but contain indistinct  
 ill-defined bands ~~represent~~  
 of lenses, ser. feet thick, rich  
 in f's & garnet. Str 6517/60SE.  
 T - 61. 65280083

Satellite S. neighbor

mac like Peace. Less br. dark  
red-brown ssch str. abt SSWT.

- could be shale sandy.

Mill Pt.

62

~~Gr SWT~~ eff. var.  
element of fcltn comm. dark,  
rock dr red brown, fine uniform.

- a few 1/2 ft

Str. F-WT / 50 W.

- a striking resemblance in  
blacks to some of the red  
bands only in the From

Pk range. - w. small lens  
fossil - out black rock

10' x 2' max.

Photo

Mill 10 W. red brown

Pt 469

(100,000 Mof.)

SW 65 M / 70 S.

T-62. Thick white bands ( $\approx 10'$ )  
(1 masses) in crs gr dark  
red rock - rather massive  
but foltd by growth



of Strips of the same.  
B-P-Q-R-F white  
weathers brick red. Brost  
granites appear to give common  
falter. Black elements 11  
falter, common. Also mylonite  
3' x 1'. Some yellowish & iron-  
stained zones  $\rightarrow$  4' x 1'  
Striking resemblance to From  
PK, main mass.

T-62. the red country rock.  
This is a ~~grad.~~ semi-gradational  
clay from the chromite w. Ekmanite  
brown feldspar to these rocks  
at Mill NW neighbour w. white  
feldspar & red feldspar on weather  
surface. The fresh rock is dark,  
again like From PK.

The white bands are few 3, or 4,  
& confined to a small inaccessible part  
of exposure. They are quite  
concord & continuous - like  
East Hansen rather than like  
From, tho' on smaller scale  
here, & less common.

Baillieu pk.

Bluff 70 yds West of camp  
for comparison is even-grained

P-Q-F rock, well foliated  
by stringers & eggs of k. min.

It is an even-grained, m.g.  
gneissic hornblende like Hayes &

Pearce, w. thin ( $\rightarrow 6''$  ~~thick~~)

lenses & bands concord pegmatitic  
material (F-rich w. v. co.  
pyrox locally). The rock brown.  
is yellow-brown to dark grey.

= a straight-out but gneissic  
hornblende but w. finer grain  
than usual (it's m.g.).

Baillieu has a thin mantle of  
moraine w. abundant white erratics.

(Are the white rocks the most common  
erratics because they are unlike the  
country rocks, or because they are  
resistant to crushing? They are  
typically garnet - quartzite or  
some f. & sp. or.

On when flight. was used because for  
high up shows no variation. D.R. red  
- brown slates only.

The erosional platform is an  
old ice base bed - i.e.  
it is on the grounding line level  
& has been planed flat but  
bumpy by ice. Only way  
it could be achieved, either or  
it could be a possible modification  
by ice action to the  
grounding line.

There are many submerged boulders  
at present. I thought it was  
to clear off for 0 - ?40'.

SUNDAY 31ST JANUARY, 1965

Samples packed for AMDL  
(duplicates kept or similar kept)

T- 40 (Inst. , From PK).

T- 42 ( Red band , airfield rth. , From )

T- 44 ( Black " , " " " " / ②

T- 45 White band eastern Horseshoe Mts. ③

T- 46 Red frilly gneiss " " " "

T-47 Dark brown lens, E. Hensen Mts.

T-50 DK brown "pyrrhotite" W.

Hensen Mts., magnetitic refn  
w T-48. T-50 is closely  
similar to T-52

T-51 Druse-like - grey green from W.

Hensen. Interbedded w. T-52  
very similar to T-48.

T-57 Charnockite from Walker Mts,  
Framnes Mts.

T-60 Charnockite, gneissic, from  
Pearl PK. (? Biotite abundant)

T-61 G-P-Q-F rock, gneissic  
w pink bands  $G \frac{2}{1} F$  pyrrhotite  
from The Satellite.

---

Entrance Island.

The pyrrhotite body is made  
up of nodules of pyrrhotite,  
black flaky, & v. cr. gr. w. thin  
(2-5mm) irregular veins of  
chalcopyrite & rare flakes magnetite

The nodules range from 3' x 1'  
to 6" x 3" & smaller &  
lie in a ~~slur~~ zone of  
sheared domokite 12' x 3' to 1.5'  
Some of the interstitial sheared  
domokite is impregnated w,  
v.f.g. sulphate  $\rightarrow$  <sup>shaded to  
adj. to shear</sup>  
1-63 nodule &  
sheared ch'ckite. Also <sup>bulk sample from</sup>  
~~massive~~ large nodule.

Sr. 550M / Vert. Concord  
w. foliation by f.g. inclusion  
 $\rightarrow$  4' x 1', in, coarse rock,  
porph. ch'ckite.

In the slur, the ore nodules  
weather to a sandy clay, ~~shales~~  
yellow-brown, in contrast to the  
sand derived from the surrounding ch'ckite.

### DIARY SATURDAY 30TH JANUARY 1965

Up 0745, breakfast 0800 & down to hold  
to sort samples. all morning & afternoon  
to 1400. Repair field equipment, ashore  
in Duker at 1445 & assist loading  
helicopters for Ken Doodle. Deliver items  
brought to OIC Hanson. Board helicopter

and take off abt 1615.

Fly to Mays Peak, land & walk down slippery snow slope, abt  $\frac{1}{4}$  mile to sample W. end.

Land S. end Pearl PK & sample, land S. end The Satellite & sample. Fly

Light to mod SEly wind, warm & calm in shelter at Mays. Fly to Mill PK., very turbulent, no possible landing, but circle then land small exposures abt 1-2 m. to N.W. - close resemblance E Horner. On to Baillieu PK & land Sonzogn camp shortly after 1800. Found Rod out of contact because bottom flat (lost 2 dgs), no longer fuel. Ted & I v. pleased to be going home since he has been here nearly 3 weeks! - a, it's a cold, bleak windy spot. Tent in so deep snow drifts on flaps had turned to ice.

Topson w Ted & I & Sonzogn back to Dawson, leaving Rod to dig out ~~equipment~~ tent & ~~equipment~~ from Top of Mt. He left ascent of Baillieu PK.

Back at Nassau, swim from Dick Ritchie,  
1st of day, water cooled w. help of  
Bob L., Peter, Baynott, Dick & others?

Saw last reel of Boulevarde, moving  
sentimental associations, having seen it so  
often. Bears got us in at 11 AM, the  
waited 3 hours. Back to ship at 2:00.

### SUNDAY 31ST JANUARY, 1965.

Up 0745, breakfast, & down to hold  
to complete sorting & packing samples,  
& number samples & photo points  
for last week's work.

A/B. lunch (1300) to Entrance I.  
w. McL. PJC, QW, mate & Baynott.  
& Peter Norton to sample pyroclastic  
nodules in a 12' shov in d'cite.

Tom took ~~re~~ pelacoma, & age  
det. samples. Back to ship at 1500.

I conf. ash to complete description  
up canyon, photograph days, then  
back to ship 1600. Clearing away  
samples to 1700, then fill up  
w. gear - dinner - & straight to  
bed to sleep for 13 hours. - Fat  
tired.

1/2/65

Aerial Inspect Islands.

~~Arros~~ + Podium + Wost

chickite

Arros Gp. All chickite, as  
v. foltn.

V. Hattessen Gp.

All chickite, faint  
foltn str. N - NE True  
- sed (other).

①. I. few m. NW of Azimuth.

① of diagen

Chamockite foltd str. 90°m

1/eff Vert. crs. gr. even-grained  
w essential garnet. few  
vague feldspar phenos - mostly  
in outline. Ockmies v. crs. gr.  
uniform. Foltn. by v. crs.



gr. striping, & bands of G-Q-F  
material w. prominent blue quartz  
T-64, (3' x 6" typ.)

? WIGG I - low mixed beds, w. green  
sand, 10'

② & S. neighbour.

White band & lens at  
S. end str. in elongation of  
island. Effect. vert. zigzag pattern | W  
in place in fact, (4 or 5 oz.  
prob 10' x 1' lt. gr & white  
prob G-Q-F.)

~~MACDONALD~~ neighbours as massive  
I Charnochia w. indentation foltn  
in elongation of islands roughly  
W-S.

V small skerry 2m N. W. W. M.  
neighbours is massive ch'dite,  
boss foltn ENE. This is West  
Macdonald I. Central Macdonald I  
visited in '61? East Macdonald  
I. is landing ②. (East group of)  
The <sup>largest</sup> ~~Westernmost~~ Island of the ~~WILLIAMS~~ <sup>ROCKS</sup>  
~~East Macdonald Is.~~ ~~WILLIAMS~~ <sup>ROCKS</sup>  
Charnochia, massive, mid yellow-brown

Cr. gr. to v. cr. gr.

biotite - garnet - ? pyroble -

quartz - feldspar (fine) 72

biotite is rare + small, garnet essential > 5% rock, evenly distributed, possibly a v. pyroble.

Feldspar may feldspar plagioclase, but they are poorly shaped, rounded, lens like.

A poor foliation outlined by pref. orient some feldspar +

by the m.g. lens of pyroble

G & F 2" x 8". // Str 90° off flat.

SAMPLER T-65. 00163

All "Macdonald Is" eff. massive charnockite.

NELSON —  
WILLIAMS Rock ~~WILLIAMS~~.

A light brown-grey to whitish G - Q - F rock with the texture of cr. gr. charnockite, but with v. little pyroble, poss. rare biotite.

Feldspar "plagioclase" as a mineral  
but the only little more than v. co.  
gr. feldspar & are not prominent.

The more felsic rock is dominant  
the G-Q-F rock also, but  
it contains a great many lenses

1" - 4" — 5' x 1', of &  
some irregular (sub-circular) blobs  
of both more felsic & more  
mafic rocks, & of f. q. rock  
of sim. comp. to mafic rock.

The lenses str.  $075^{\circ}$  left Vert.

The dark min. in the basic lenses  
is prob. pyroxene. Gen. f. q.

A few small lenses (mostly brown)  
garnet? 80% garnet

SAMPLE T-66. 65280064

-The fresh rocks were as much  
darker than the weathered rock which  
is light grey.

### STANWELL ROCKS.

Charnochite Dark yellow-brownish  
grey. V. co. gr. feldspar, plagioclase  
intergrown to form bulk of  
rock, w. interstitial garnet

+ quartz - m. g. to co. gr. -  
in small clumps. Possibly fine  
pyritoid grains a w. garnet  
clumps. The rock is  
massive, but contains well defined  
straight veins of yellow +  
blue mottled Q-F pegmatite  
which strikes within varieties  
of vague foliation 30-70°  
The pegmatite is 50' long x 6"  
thick. Effectively vertical.

### SAMPLE T-67.

Rock 1 m N. <sup>E.</sup> Summit.

All ~~eff.~~ massive chondrite, mostly  
very small, sandy break surface  
No discernible foliation.

Victor Smith Rock

Chondrite light to mid yellow-  
-brown, med. gr. to co.  
gr. w. a few poorly shaped  
feldspar xls → 30 mm x 5.

Q - Pl hole - Q - F rock

W. much more pyroxenic than rocks  
earlier to -dy. ~~with~~ Fair foliation  
by ill defined but fairly large stripes  
of pyrox rich rock, typ  $4" \times \frac{1}{2}"$   
Garnet gen a.w. pyrox. The  
pyrox rich stripes may be lenses  
 $3' \times 6"$  - all have consid quantities  
Q & F. Foltn str 65M,  
eff Vert.

Sample T-68.

Garnet "essential", but small  
& of ~~minor~~ ~~iron~~ only abt 1-2%.

Island to East is clearly charnockite.  
Others near Smith Look.

Conspic str. in elongation, eff. vertical.

Klung "roughly" concord w. Conspic

Watch & Is smooth, cle' cle' cle's

Str. Swing to SW also Watch, Peterson;  
T. 68. Inclusion NOT

big any more, all covered, island.  
May pattern str diff from others.

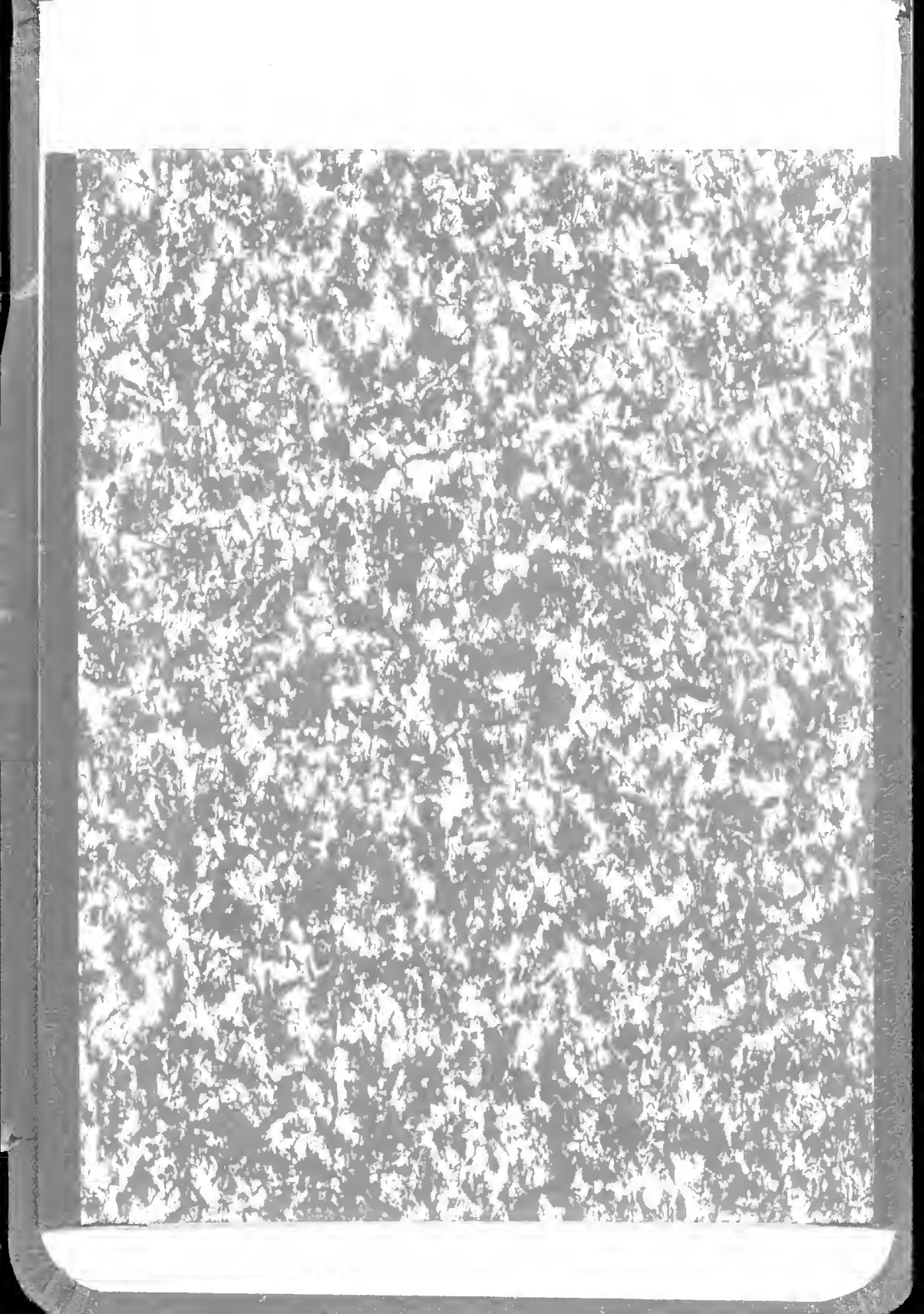
TO ANDRE

T-66 Felsic  
Ch'ch'ch'.

Wälser etc.

vll





0071